

COMMUNICATIONS OFFICIELLES

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading

COMMISSION PARITAIRE CONSULTATIVE DES RECOURS

La Commission Paritaire Consultative des Recours s'est réunie pour examiner l'appel introduit par M.R. FAES concernant la réglementation du travail par roulement.

La Commission a terminé ses travaux et a soumis ses recommandations au Directeur général. Conformément à l'Art. R.VI 1.10 du Règlement du Personnel, ces recommandations et les décisions définitives du Directeur général sont à porter à la connaissance du personnel. Pour ce faire, ces documents seront affichés aux tableaux officiels du Bâtiment de l'Administration (rez-de-chaussée Bât. 60) du 31 mars au 14 avril inclus.

J.F. Barthélemy
Tél. 2855

JOINT ADVISORY APPEALS BOARD

A meeting of the Joint Advisory Appeals Board has been held to examine the appeal lodged by Mr. R. FAES concerning the rules applicable to shift-work.

The Board has completed its study and submitted its recommendations to the Director-General. Article R VI 1.10 of the Staff Regulations specifies that these recommendations and the final decisions of the Director-General must be brought to the notice of the personnel. The relevant documents will therefore be posted on the official notice-boards of the Administration Building (ground floor - Bldg. 60) from 31 March to 14 April inclusive.

J.F. Barthélemy
Tél. 2855

SEMINARS SEMINAIRES

MONDAY 3 APRIL

EP SEMINAR

at 11.00 hrs - EF Conference Room
(Lab.13-2-005)

"Use of conventional MWPC as drift chambers for detection with high energy resolution of soft X-rays with energy down to 500 eV"

by U. Gastaldi / CERN

Abstract: A new way of using conventional MWPC for detection with good energy resolution of low energy X-rays is discussed. The method is based on the measurement of the drift time of the primary electrons and on the strong energy dependence of the low energy X-ray absorption cross-section. While the low energy detection threshold is, as usual, determined by the thickness of the chamber entrance window and can be set below 500 eV with a thin Be window, the energy resolution is no more dictated by the number of primary electrons, but instead by the accuracy of the drift time measurement. The method is illustrated in the 3-6 keV energy region using $\bar{p}$ He data collected with the high pressure cylindrical MWPC used by the "Protonium" collaboration in Exp. S142.

The substantial progress possible in the spectroscopy of low Z exotic atoms (e.g. $\bar{p}p$, μp atoms) will be discussed together with more technical applications.

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"Collective pion production mechanisms in relativistic heavy ion reactions"

by B. Müller / Frankfurt

Abstract: Several mechanisms of pion production in nucleus-nucleus collisions are discussed, where more than two nucleons interact collectively. The experimental situation is reviewed and compared with the predictions.

TUESDAY 4 APRIL

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium(*)

"Characteristics of trimuon events observed in high energy neutrino interactions"

by H.J. Willutzki / CERN

Abstract: Trimuon data obtained with the CDHS-detector in the wide-band-beam at the SPS will be presented. The rate of trimuon production $R(3\mu/1\nu)$ will be discussed as well as its energy dependence. In particular an analysis of the possible origins of trimuons will be given.

(*) Note: Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussion.

WEDNESDAY 5 APRIL

PRESENTATION TECHNIQUE

de 10h00 à 12h00

EF Conference Room, Bldg 13-2-005

MOTOROLA SEMINAR by MOTOROLA Geneva - EVOLUTION ON MICROPROCESSOR

General tendency on micro-electronic - Recall of 6800 structure - Short term tendency : the one chip Micro-computer MC 6801, the MC 6809, bridge to 16 bits - Middle term tendency : the 16 bits microprocessor MACS

Langues : French or English accordingly

Renseignements : M. Diraison / FI / 4585

ESO ASTROPHYSICS SEMINAR

at 11.30 hrs - ESO Conference Room (Bldg 593)

"Interpretation of IR data of HII regions"

by N. Panagia / Bologna

Abstract : A review of the properties of HII regions and a discussion of the infrared emitting dust.

CERN ENERGY SEMINAR (GENERAL LEVEL)

at 16.00 hrs - Auditorium

"Experiments on fusion in self-colliding beams"

by B.C. Maglich / Migma Inst. of High-Energy Fusion, Princeton

Abstract: An evolution of ideas, -- from the ISR to self-colliding orbits to self-colliding beams^{2,3} -- has led us to the concept of migma-cell⁴, a non-plasma low-gain (1.5 - 3) fusion amplifier, expected to have an output of 100 kWe to 1 MWe. By using direct collisions, (instead of heating), collisional energies of ~ 1 MeV, (equivalent "temperatures" of 10 billion degrees K) have been achieved in our 3 models, with a central ion density 10^{10} d⁺/cm³, confinement time of 2 sec., and a luminosity of 10^{27} cm⁻²s⁻¹. Experiments will be described as well as the new migma-cell model (in which a 10^3 fold density increase is hoped for).

Such "high energy" fusion renders it possible to utilize the "advanced fuels" such as D, ³He or Boron ions, rather than Tritium, thus lending itself to a clean and small (1 m in diameter) power source, which is neutron-free or neutron-deficient, non-radioactive, and emits only charged particles whose energy can be converted into electricity directly by deceleration.

An 18 minute film on experiments and computer simulations will be shown after the talk.

1. Part. Accel 1 (1970) 121.
2. Phys. Rev. Lett. 27 (1971) 909.
3. App. Phys. Lett. 26 (1975) 609.
4. Nucl. Instr. Meth. 144 (1977) 33.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker for informal discussion. Tea and coffee will be provided.

THURSDAY 6 APRIL

PRESENTATION TECHNIQUE

de 9h00 à 12h00

Parking PTT, près du Bât 63 (D-3 sur plan CERN)

La Maison WERKZEUG UNION DWU (D), représentée par GROSSENBACHER SA (CH), expose les outillages à main BELZER ET DOWIDAT. Ce programme comprend également le mobilier connexe (rangement, établis fixes et roulants...)

Langue : français

Renseignements : M. Diraison / FI / 4585

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium (*)

"Status report on the LEP-70 design study"

by E. Keil / CERN

Abstract : LEP-70 is an e^+e^- storage ring with a nominal energy of 70 GeV and a radius of about 3.5 km. The following aspects of the design study will be covered : performance aims and limitations, beam dynamics, experimental areas, engineering of components.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussion. Tea and coffee will be provided.

TUESDAY 11 APRIL

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Observation and study of the $\nu_\mu e^- \rightarrow \nu_\mu e^-$ reaction in Gargamelle at high energy"

by J.P. Vialle / CERN

TRAINING AND EDUCATION ENSEIGNEMENT

JEUDI 6 AVRIL

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

Thème principal : "Cycle du carbone et climat : où en est-on aujourd'hui ?"